

IN THE CLAIMS:

This listing of claims will replace all prior versions, and listings, of claims in the application:

1. (Cancelled).

2. (Currently Amended) A method of detecting a malfunction in an electric injection-molding machine, the method being applied to ejection of a molded product by pushing an ejector pin out of a die, the method comprising:

obtaining a pattern characterizing torque of an ejector-pin driving motor relative to time or a position of an ejector pin based on when a molded product is normally removed;

setting, in advance, a plurality of monitoring zones at least one monitoring zone based on the pattern and the upper and lower limits of torque in each of the monitoring zones;

monitoring a torque value in each of the monitoring zones during the ejection of the molded product and determining that a malfunction has occurred when the torque value falls outside the upper and lower limits of the monitoring zone, and counting the number of malfunctions; and

raising an alarm when the number of malfunctions during a single ejection reaches a predetermined number.

3. (Previously Presented) A method of detecting a malfunction in an electric injection-molding machine, the method being applied to ejection of a molded product by pushing an ejector pin out of a die, the method comprising:

obtaining a pattern characterizing torque of an ejector-pin driving motor relative to time or a position of an ejector pin based on when a molded product is normally removed;

setting, in advance, at least one monitoring zone based on the pattern and the upper and lower limits of torque in each of the monitoring zones;

monitoring a torque value in each of the monitoring zones during the ejection of the molded product and determining that a malfunction has occurred when the torque value falls outside the upper and lower limits of the monitoring zone, and counting the number of malfunctions; and

raising an alarm when the number of malfunctions occurring within a predetermined time reaches a predetermined number.

4. (Cancelled).

5. (Cancelled).

6. (Cancelled).